

#16

Substitute for Form 1449/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Sheet 1 of 8 Attorney Docket Number 074451.P127D4

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
Wen		us- 3,580,655	5/25/1971	Leith et al.	
		us- 3,950,103	4/13/1976	Schmidt-Weinmar	
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Complete if Known

Application Number	09/801,360
Filing Date	03/06/2001
First Named Inventor:	Edward L. Schwartz
Art Unit	2624
Examiner Name	Wenpeng Chen

Attorney Docket Number 074451.P127D4

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WEN		us-	4,985,927	1/15/1991	Norwood et al.	
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WENPENG CHEN

Wenpeng Chen

8/16/04

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Sheet

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of

8

Attorney Docket Number

09/801,360

03/06/2001

Edward L. Schwartz

2624

Wenpeng Chen

Art Unit

Examiner Name

Application Number

Filing Date

First Named Inventor:

2624

Examiner Name

074451.P127D4

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		Number-Kind Code ² (if known)				
<i>me</i>		us-	5,414,780	5/9/1995	Carnahan	
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WENPENG CHEN

PRIMARY EXAMINER

Wenpeng Chen 8/16/06

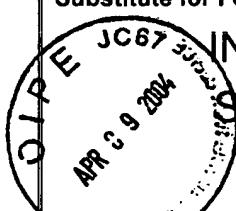
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8

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First Named Inventor:

Edward L. Schwartz

Art Unit

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Examiner Name

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Sheet	5	of	8	Attorney Docket Number	074451.P127D4
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First Named Inventor:	Edward L. Schwartz
Art Unit	2624
Examiner Name	Wenpeng Chen

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
<i>mc</i>		EPO 0510933 A1	10/28/1992	Canon Kabushiki Kaisha		
<i>mc</i>		EPO 0593013 A2	4/20/1994	Kabushiki Kaisha Toshiba		
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<i>mc</i>		UK GB 2 303 031 A	2/5/1997	Ricoh Company Ltd.		
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Examiner Signature	WENPENG CHEN <i>Wenpeng Chen</i> PRIMARY EXAMINER	Date Considered	8/16/04
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached.

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Sheet 6 of 8 Attorney Docket Number 074451.P12714

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
WEN	1	ANTONINI, et al., "Image Coding Using Wavelet Transform", <u>IEEE Transactions on Image Processing</u> , Vol 1, No. 2, April 1992, pp. 205-220.	
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	3	BOLIEK, et al., "Decoding compression with reversible embedded wavelets (CREW) codestreams", <u>Journal of Electronic Imaging</u> , July 1998, vol. 7 (3), pp. 402-409.	
	4	BOLIEK, et al., "JPEG 2000 for Efficient Imaging in a Client/Server Environment", <u>Proceeding of the PIE, SPIE</u> , Bellingham, VA, US, Vol. 4472, July 31, 2001, pp. 212-223, XP008010308.	
	5	BOLIEK, et al., "JPEG 2000 Next Generation Image Compression System", IEEE 0-7803-6297, 45-48	
	6	CALDERBANK, et al., "Wavelet Transforms That Map Integers to Integers", August 1996.	
	7	CAREY, et al: "Regularity-Preserving Image Interpolation", <u>IEEE Transactions on Image Processing</u> , Vol. 8., No. 9, September 1999, pgs. 1293-1297, XP002246254.	
	8	CARRATO, et al: "A Simple Edge-Sensitive Image Interpolation Filter", <u>Proceedings of the International Conference on Image Processing (ICIP)</u> Lausanne, Sept. 16-19, 1996, New York, IEEE, US, vol. 1, pgs. 711-714, XP010202493.	
	9	CHEN, et al., "Wavelet Pyramid Image Coding with Predictable and Controllable Subjective Picture Quality", <u>IEICE Trans. Fundamentals</u> , Vol. E76-A., No. 9, September 1993, pp. 1458-1468.	
	10	CHEONG, et al., "Subband Image Coding with Biorthogonal Wavelets", <u>IEICE Trans. Fundamentals</u> , Vol. E75-A., No. 7, July 1992, pp. 871-881.	
	11	CHRYSAFIS, et al., "An Algorith for Low Memory Wavelet Image Compression", IEEE 0-7803-5467-2/99, pg. 354-358.	
	12	CHRYSAFIS, et al., "Line Based Reduced Memory, Wavelet Image Compression," <u>Data Compression Conference</u> , 1998, DCC '98, Proceedings Snowbird, UT, March 1998, pgs. 398-407.	
	13	CHUI, et al., "Wavelets on a Bounded Interval", <u>Numerical Methods of Approximation Theory</u> , Vol. 9, 1992, pg. 53-75.	
	14	CROCHIERE, et al., "Digital Coding of Speech in Sub-bands", 1976, American Telephone and Telegraph Company, <u>The Bell System Technical Journal</u> , Vol. 55, No. 8, October 1976, p. 1069-1085.	
	15	DENK, et al., "Architectures for Lattice Structure Based Orthonormal Discrete Wavelet Transforms", <u>IEEE</u> , 1994, pp. 259-270.	
	16	DESHPANDE, et al., "HTTP Streaming of JPEG2000 Images", <u>IEEE</u> , 2001, pp.15-19.	
	17	Dutch Search Report, 133082, 11/26/96.	
	18	ESTEBAN, et al., "1977 IEEE International Conference on Acoustics, Speech & Signal Processing", "Application of Quadrature Mirror Filters to Split Band Voice Coding Schemes", p. 191-195.	
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WENPENG CHEN

PRIMARY EXAMINER

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Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
WEN	✓	GHARAVI, et al., "Sub-band Coding of Digital Images Using Two-Dimensional Quadrature Mirror Filtering", SPIE Vol. 707 Visual Communications and Image Processing, 1986, p. 51-61.	✓
	✓	GORDON, BENJAMIN M., et al., "A 1.2 mW Video-Rate 2-D Color Subband Decoder", IEEE Journal of Solid-State Circuits, IEEE Inc. New York, Vol. 30, No. 12, Dec. 1, 1995, pgs. 1510-1516.	✓
	✓	HAUF, et al., "The FlashPix™ Image File Format", The Fourth Color Imaging Conference: Color Science, Systems and Application, 1996, pp. 234-238.	✓
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	✓	REUSENS, "New Results in Subband/Wavelet Image Coding", 5/1993, pg. 381-385.	✓
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PRIMARY EXAMINER

Based on Form PTO/SB/08B (08-03) as modified by BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP on 09/10/03.

8/16/04

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	09/801,360
Sheet	8	of	8	Filing Date	03/06/2001
				First Named Inventor:	Edward L. Schwartz
				Art Unit	2624
				Examiner Name	Wenpeng Chen
					APR 13 2004
				Attorney Docket Number	074451.P127D4

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✓	✓	SHAH, et al., "A Chip Set for Lossless Image Compression", <u>IEEE Journal of Solid-State Circuits</u> , Vol. 26, No. 3, March 1991, pp. 237-244.	✓
✓	✓	SHAPIRO, J. M., "An Embedded Hierarchical Image Coder Using Zerotrees of Wavelet Coefficients", <u>IEEE</u> , 1993, pp. 214-223.	✓
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✓	✓	STOFFEL, et al: "A Survey Of Electronic Techniques For Pictorial Image Reproduction," <u>IEEE Transactions On Communications</u> , vol. COM-29, no. 12, December 1981, pp. 1898-1925, XP000560531 IEEE, New York (US).	✓
✓	✓	SZU, et al., "Image Wavelet Transforms Implemented by Discrete Wavelet Chips", <u>Optical Engineering</u> , July 1994, Vol. 33, No. 7, pp.2310-2325.	✓
✓	✓	VETTERLI, Martin, "Filter Banks Allowing Perfect Reconstruction", <u>Signal Processing</u> 10 (1986), pg. 219-244.	✓
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✓	✓	VILLASENOR, et al., "Filter Evaluation and Selection in Wavelet Image Compression", <u>IEEE</u> , 1994, pp. 351-360.	✓
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✓	✓	WOODS, et al., "Sub-band coding of Images", Proceedings ICASSP 86, Tokyo, Japan, April 1986, p. 1005-1008.	✓
✓	✓	WU, et al., "New Compression Paradigms in JPEG2000", Applications of Digital Image Processing XXIII, San Diego, CA USA, July 31-Aug 3, 2000, vol. 4115, pp. 418-429, XP008013391, Proceedings of the DPIE - The International Society for Optical Engineering, 2000, SPIE-Int. Soc. Opt. Eng., USA.	✓
✓	✓	XIONG, et al., "Joint Optimization of Scalar and Tree-structured Quantization of Wavelet Image Decompositions", 01/11/93, pp. 891-895.	✓

Examiner Signature	WENPENG CHEN PRIMARY EXAMINER <i>Wenpeng Chen</i>	Date Considered	8/16/04
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